

In the Claims

1. (Currently Amended) An optomechanical switch for transmitting an optical beam comprising:
 - a substrate;
 - a signal light source capable of transmitting a radiation signal; and
 - a light (or laser) movable liquid crystal (LMLC) on said substrate positionable between a first position and a second position upon activation with said signal light source.
2. (Original) The optomechanical switch of claim 1 wherein said first position is a transmissive state for transmission of said optical beam.
3. (Original) The optomechanical switch of claim 2 wherein said second position is a reflective state for reflection of said optical beam.
4. (Original) The optomechanical switch of claim 1 wherein said substrate is silicon.
5. (Original) The optomechanical switch of claim 1 wherein said substrate is silicon on insulator.
6. (Original) The optomechanical switch of claim 1 wherein said substrate is a multi layer substrate.
7. (Currently Amended) The optomechanical switch of claim 1 wherein said signal light source is a laser.
8. (Canceled)
9. (Currently Amended) An optomechanical switch for transmitting an optical beam comprising ~~The optomechanical switch of claim 1 further comprising:~~

a substrate;

a signal source capable of transmitting a radiation signal;

a light movable liquid crystal on said substrate positionable between a first position and a second position upon activation with said signal source

a micromirror disposed perpendicularly to the plane of hinged to said LMLC.

10. (Canceled)

11. (Currently Amended) The optomechanical switch of claim 10-9 wherein said hinge is made of LMLCs.

12. (Original) The optomechanical switch of claim 1 wherein said LMLC is rotatably disposed with respect to said substrate.

13. (New) The optomechanical switch of claim 9 wherein said first position is a transmissive state for transmission of said optical beam.

14. (New) The optomechanical switch of claim 13 wherein said second position is a reflective state for reflection of said optical beam.

15. (New) The optomechanical switch of claim 9 wherein said signal source is a light source.

16. (New) The optomechanical switch of claim 9 wherein said signal source is a laser source.